

2144.0300000 SubsSeq Listing.txt

## SEQUENCE LISTING

<110> KAWAZU, YOICHI  
SUGIYAMA, KEITA  
MORIKAWA, TOSHIYUKI  
SASAYA, TAKAHIDE

<120> Nucleic acids encoding mirafiori lettuce viral proteins and utilization thereof.

<130> 2144.0300000

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<141> 2005-01-18

<150> JP 2002-209805

<151> 2002-07-18

<160> 6

<170> PatentIn Ver. 2.1

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<211> 1514

<212> DNA

<213> mirafiori lettuce virus

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<221> CDS

<222> (87)..(1400)

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1 5

att cag tct atc ttg caa aaa gat gtg act tcc gaa gga gaa aca gct 161  
Ile Gln Ser Ile Leu Gln Lys Asp Val Thr Ser Glu Gly Glu Thr Ala  
10 15 20 25

att cta att tct ctt ggt ctc atg aca aaa gaa gag aag cct gtt cct 209  
Ile Leu Ile Ser Leu Gly Leu Met Thr Lys Glu Glu Lys Pro Val Pro  
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gca aaa atg gcc atg gtg gca tct gca aaa gca aac tca atc atc ttt 257  
Ala Lys Met Ala Met Val Ala Ser Ala Lys Ala Asn Ser Ile Ile Phe  
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gtt tcg gaa gat ggc tct ttg tct ttt gaa gct cca aaa gaa aca gga 305  
Val Ser Glu Asp Gly Ser Leu Ser Phe Glu Ala Pro Lys Glu Thr Gly  
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gag acc agc aaa cca gga gag aag aaa gag gaa aag aag gta gaa gtg 353  
Glu Thr Ser Lys Pro Gly Glu Lys Lys Glu Glu Lys Lys Val Glu Val  
75 80 85

gga gtc aag ttt cct ttc agc gca gcc aaa gta aag gag cta att gaa 401  
Gly Val Lys Phe Pro Phe Ser Ala Ala Lys Val Lys Glu Leu Ile Glu  
90 95 100 105

ggg aaa agt ctt act ttg gat cag gac aaa atc caa aaa gtg ctg gaa 449  
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Glu	Tyr	Val	Lys	Asn	Leu	Pro	Arg	Thr	Ala	Glu	Thr	Tyr	Lys	Pro	Lys	
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Tyr	Lys	Asp	Ser	Ala	Glu	His	Asn	Phe	Ile	Phe	Asp	Val	Lys	Val	Leu	
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Ser	Pro	Asp	Phe	Ile	Asp	Ser	Lys	Leu	Leu	Val	Asn	Asn	Ile	Glu	Thr	
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ttc aaa aga gat gaa aat ata ttt gga agg tta aat gct ctt gga caa 1313
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ccc acg ttt cct gtt ctg act aac gca gat gct gac ttt tct gaa ttg 1361
Pro Thr Phe Pro Val Leu Thr Asn Ala Asp Glu Asp Phe Ser Glu Leu
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tca gtt gag gcc gtg aag aca gct tac gga aag aaa tga gggcagaatc 1410
Ser Val Glu Ala Val Lys Thr Ala Tyr Gly Lys Lys
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 <212> PRT  
 <213> mirafiori lettuce virus

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Ser Phe Glu Ala Pro Lys Glu Thr Gly Glu Thr Ser Lys Pro Gly Glu
65 70 75 80
Lys Lys Glu Glu Lys Lys Val Glu Val Gly Val Lys Phe Pro Phe Ser
85 90 95
Ala Ala Lys Val Lys Glu Leu Ile Glu Gly Lys Ser Leu Thr Leu Asp
100 105 110
Gln Asp Lys Ile Gln Lys Val Leu Glu Glu Tyr Val Lys Asn Leu Pro
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Arg Thr Ala Glu Thr Tyr Lys Pro Lys Glu Ile Glu Ile Lys Cys Phe
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Lys Gly Val Asp Phe Ser Ile Ser Ser Leu Leu Ser Ser Gly Thr Lys
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180 185 190
Lys Leu Leu Val Asn Asn Ile Glu Thr Gly Asn Arg Ala Ile Lys Ala
195 200 205
Ala Phe Cys Leu Val Tyr Asn Gln Gly Gly Leu Pro Ser Lys Thr Ser
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